


FLUORINE-CONTAINING ALKYLAMINE AND ITS PRODUCTION

Patent number: JP2001011032
Publication date: 2001-01-16
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Classification:
 - International: C07C217/26; C07C213/02; C10M105/60; C10M107/40; G11B5/71
 - european:
Application number: JP19990189429 19990702
Priority number(s):

Also published as:

 JP2001011032 (A)

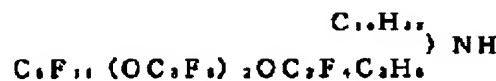
Abstract of JP2001011032

PROBLEM TO BE SOLVED: To obtain the novel subject compound having excellent lubrication characteristics and useful as a lubricant for various machines, apparatus or parts by bringing the compound to have an amino group, a fluorine-containing terminal group and an aliphatic hydrocarbon terminal group.

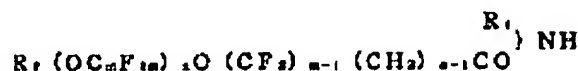
SOLUTION: This fluorine-containing alkylamine is a compound expressed by formula I (R1 is an aliphatic alkyl or an aliphatic alkenyl; R2 is a fluoroalkyl; m is 1-6; n is 1-30; a is 1-12), e.g. the compound expressed by formula II. The compound of formula I is obtained by reacting (A) a fluorine-containing alkylamide ester with (B) the solution of a borane tetrahydrofuran complex (catalyst) in tetrahydrofuran at preferably 0-30 deg.C and bringing the reaction product to an amine by reducing a carbonyl group. In the aforesaid reaction the molar ratio of the ingredient A to the catalyst is preferably 1:1-1:5. The aforesaid compound is useful as a material for constituting a lubricant composition. The lubricant composition is preferably brought to contain 40 wt.% of the compound.



I



II



III

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